CHECK IT OUT
BEFORE ITS TOO LATE !

ATARI DID A COMPLETE REDESIGN
75% OF THE 810 DISK DRIVE'S ELECTRONICS WERE IMPROVED
YOUR 810 MAY HAVE THE OLD ELECTRONICS AND BE DOOMED TO FAIL!

WHAT TO CHECK FOR
USE THE EASIEST METHOD FOR YOU

METHOD 1 - Open the front door on the disk drive where the disk goes in, and remove any disk thats in there. Look up inside where the disk goes in, toward the top. Look for a circuit board directly above the area where the disk goes in. The board may be more towards the back, but will always be above the slot where you put the disk in. Do not confuse the board on the left with the board on the top. If you do NOT see the circuit board, you have the OLDER ELECTRONICS.

METHOD 2 - With the top of the disk drive removed find the speed adjustment control. If the control is a white button with a slot in it you have the older electronics. Or look at each circuit board. If you have only 2 boards, one on the left with a metal cover, and one in the rear where the power plugs in, and have no third board on top above where the disk goes in you have the old electronics.

IF YOU ALREADY HAVE THE NEW ELECTRONICS

Don't breath a sigh of relief yet! Atari also made one change to the new electronics. On the board that is on top above the disk (the analog board) find the resistor marked on the board as R218, it is in back of C214 slightly to the right and back of the center of the board. If the resistor has the colors red, black, red, gold then you need to either change the resistor to a 1400 ohm resistor, or solder a 4700 ohm resistor in parallel with R218 and you will have a 1400 ohm equivalent. This change will help your disk drive format disks and be more compatible with other disk drives. Call us if you need help.

DON'T PANIC IF YOU HAVE THE OLD ELECTRONICS

HAPPY COMPUTERS has the ANALOG UPGRADE. We are selling a complete kit you may install yourself which includes 9 pages of installation instructions, a new rear board, a new top board and mounting screws, and a pre-assembled cable. All components are brand new surplus and are completely tested by us prior to shipping. No soldering or special tools are required for this installation.

WHAT THE UPGRADE DOES

The upgrade gives your drive a rock solid stable motor speed control circuit, set it and forget it! The disk reading and writing amplifiers are greatly improved, allowing better disk formatting and compatibility with older disks and other drives. Also just as important is the improved power supply which keeps the rest of your drive healthy and working. You get all this by changing out your old rear board with a new one, and adding a new top board. The side board where the ENHANCEMENT is located is not changed at all. The top board is the latest and best design including the correct resistor mentioned above.

Guarantee — UPGRADE NOW

HAPPY COMPUTERS used to charge extra for fully tested boards, now all boards are fully tested by us prior to shipment. We now guarantee the boards against defects in materials for 90 days and will offer an exchange for defective boards. Improper installation voids this warranty.

As of this mailing we have a good supply and have improved our testing so that we can offer this upgrade with fully tested boards at just $49.95. This is a $150.00 value from Atari (if you can get it). Add $10.00 if ordering from outside the USA for airmail shipping. If you order COD by phone add $5.05 (you pay the charges). If you prepay we pay the shipping. California residents add $3.25 state sales tax. Don't delay, order now. Once our supply runs out you may not be able to get the upgrade anywhere. If you order before May 31, 1984 you will get the latest software upgrade at no extra charge; you must mention this in your order!

REV 5.2 SOFTWARE
GET IT FREE?

Revision 5.2 of the WARP SPEED SOFTWARE is now available. It has changes in the HAPPY BACKUP and HAPPY COMPACTOR which allow backup of the new SYNAPSE games. There are also some additions to the diagnostic which allow such things as a read/write test, and a feature which allows positioning the read/write head over any track for as long as you wish which is useful for head cleaning with a cleaning disk and also head alignment. The charge for this revision is $15.00 if you wish to receive the complete WARP SPEED SOFTWARE instructions and 5.2 update instructions or $7.50 if you wish to receive only revision 5.2 disk and update instructions which assume you already have the 26 page WARP SPEED SOFTWARE instructions. For all shipments outside the U.S.A add $5.00 to these prices.

If you order either the 810 ENHANCEMENT or ANALOG UPGRADE using the order form in this flyer you will receive the 5.2 revision and complete instructions at no additional charge. If you are a registered 810 ENHANCEMENT owner and order the 1050 ENHANCEMENT in advance you will also receive the rev 5.2 software also at no charge. Those that purchased the 810 ENHANCEMENT beginning April 1, 1984 are entitled to revision 5.2 for free. You MUST attach a photocopy of your proof of purchase showing the purchase date to qualify, dates filled in on warranty cards are not accepted as proof of purchase date.

1050 ENHANCEMENT

The HAPPY 1050 ENHANCEMENT is now ready for manufacturing. It has the same features as the 810 ENHANCEMENT plus true double density. That is twice the storage as the 810. It supports all 3 Atari compatible densities at top WARP SPEED. We do not supply double density software operating systems at present but are working to establish a standard protocol for SUPER SPEED ENHANCED disk drives with at least one operating system supplier. The ENHANCED 1050 true double density is compatible with double density operating systems and software packages available through software vendors.

Like the 810 ENHANCEMENT the 1050 ENHANCEMENT is a high quality printed circuit board that plugs into the 1050 with no soldering or wiring. The connector pins are gold plated and a 1 year parts and labor guarantee is included. Installation consists of taking the drive apart, unplugging two integrated circuits from sockets, plugging in the HAPPY board, and putting the drive back together.

The HAPPY 1050 gets its power from a custom integrated circuit which HAPPY COMPUTERS has manufactured especially for high speed reliable use. No one else offers this much power as an upgrade for the 1050!

HISTORY HAS A LESSON!

When the 810 ENHANCEMENT was advertised we were back-ordered for about 2 months. We could not ship from stock until 4 months after we began selling the 810 ENHANCEMENT. We expect a similar demand for the 1050 ENHANCEMENT and recommend that if you want to get yours early that you order in advance.

SPECIAL OFFER FOR ADVANCE 1050 ORDERS

If you order the 1050 ENHANCEMENT in advance of the date the first unit is shipped we offer two bonuses. First you get $50.00 off the regular retail price, and second if you also have an ENHANCED 810 registered with HAPPY COMPUTERS you will receive free the rev 5.2 software available now and also, later an upgrade which even further extends the capabilities of the ENHANCED 810. Once we begin shipping the 1050 ENHANCEMENT this special offer will be discontinued! This offer only applies to prepaid orders, NO 1050 ENHANCEMENT COD ORDERS UNTIL ALL BACKORDERS HAVE BEEN SHIPPED!

For any new product we must rely on the delivery schedules given to us by parts manufacturers. Based on the current schedule we expect the first 1050 ENHANCEMENT to be shipped around June 15, 1984. All those that order the 1050 ENHANCEMENT in advance will be advised of their expected delivery date.

IMPORTANT INFORMATION

WRITE PROTECT SWITCH

If your HAPPY ENHANCED 810 disk drive has been modified with a switch that allows you to write on the back side or on write protected disks you can cause a problem called the "SLOW HAPPY". With this switch set in the position where writing is always allowed the HAPPY does not see that you have changed disks. Changing disks may change the format and if HAPPY does not see the change the disk will read in spurts, with a long delay between each burst of data being read. The solution is to keep this switch in the position where the normal write protect notch circuit is working, except when you want to write on the back of the disk. The switch must have a position where the "WRITE PROTECT CHECK" in the HAPPY DIAGNOSTIC passes the test and be left in that position at all times except when need to override the disk notch.

The problem especially shows up when you are looking at the directory of a group of disks which may have been formatted on different disk drives. Turning the HAPPY ENHANCED disk drive off and on always causes the HAPPY to read the format when the first read operation is requested. Never turn the disk drive off or on when a disk is inserted as bad sectors may be written over the disk! The HAPPY ENHANCEMENT needs to read the format from the disk each time a different disk is inserted, and is made aware of the disk change by automatically sensing a momentary change in the write protect. Even if the disk has no notch there will always be a momentary change as the old disk is removed and the new disk is inserted. With the write protect circuit disabled the HAPPY cannot sense the change of disks and the "SLOW HAPPY" syndrome may result, depending on which drive the disks were formatted on. THE HAPPY BACKUP PROGRAM is not affected by this switch since HBP always gets the format from each track.

CALL FOR REGISTRATION OF ALL HAPPIES

It is very important that each ENHANCEMENT you own be registered with HAPPY COMPUTERS. As of this writing only about 3 out of 5 ENHANCEMENTS have been registered. All ENHANCEMENTS purchased directly from HAPPY COMPUTERS are automatically registered. ENHANCEMENTS purchased from HAPPY COMPUTERS' dealers are registered only if you send in the warranty card.

HAPPY COMPUTERS is planning more updates and some updates may require an update for each HAPPY you own... not just one disk for all of them. If you lost or did not get a warranty card with each ENHANCEMENT then it is required that you send HAPPY COMPUTERS proof of purchase and the serial number of your ENHANCEMENT in order to effect registration. This serial number is on the HAPPY ENHANCEMENT circuit board inside your disk drive. You may have to disassemble the disk drive to find the number if you did not already register. You should receive one flyer for each HAPPY ENHANCEMENT you own and the serial number of each is on the mailing label.

If you move please inform us as we are now using bulk mail for our announcements and these are not usually forwarded. If you buy a used ENHANCEMENT its good to make sure that the original owner had registered the product with us. We will be happy to transfer ownership and place you on our mailing list if you can provide proof of purchase and the serial number of the ENHANCEMENT.

TECHNICAL INFORMATION

We receive many requests for technical information on how the HAPPY ENHANCEMENT works, and how to program it to perform other tasks. Much of this information is proprietary to both HAPPY COMPUTERS and Atari. We are not permitted to release this type of information without Atari's permission. The most often requested item is how to cause the drive motor to turn off immediately under control of the personal computer. The rev 5.2 update instructions include this as a bonus program written in BASIC. Write us with your ideas concerning other things you would like your ENHANCED drive to do.

B&C computervisions

April 1984

In May 1983 Atari stopped production of the 800/810/400. On the assembly
line were assembled & tested PC boards ready to build thousands of these
units. B&C purchased a large quantity of these PCB's & is now selling them
at very low prices (prices subject to change). These PCB's are Atari
surplus items & are only available while the supply lasts. Production has
stopped, demand is high, prices will ......?

***** New Atari 810 Disk Drives(assembled by B&C) & Drive Parts ****
Happy 810 disk drive in Anodized case w/cable & power pak $450
Happy 810 disk drive in Atari case w/cable & power pak $475.
Atari 810 in Black Anodized aluminum case w/cable & power pak $270.
Atari 810 Side, Data Sep, Analog, Power PCB & Drive Mech $195.
Disk drive mechanism $100. (Tandon/MPI) Pressure pad $3. Door latch $12.
Motor $30. Stepper $45. Head assembly $70. Bearing assembly $30.
I/O cable $15. Mounting Plate $20. Black Anodized case $50. Power Pak $20.
*************** New Disk Drives w/copy of DOS II **************
Trak AT-D2 with printer port & TURBO software $420.   Slave $295.
Percom RFD double density $395.   2 sided $495.   Dual drive 2 side $750.
Percom AT88-PD w/print port $450.   2 sided $550.   Dual drive 2 side $800.
ATR 8000 or Percom compatible slave drives 1 side $250. 2 side $325.
OSS DOS XL $30.   Eclipse Top DOS $40. Atari DOS II Copy w/Manual $20.
****************** Surplus Atari Computer Parts **************
Atari 800/400 Computer Field Service Manual (FSM) $25. 820 Printer FSM $5.
Atari 800 CPU, 10k ROM, 16K RAM(no chips), Main & Power PCB $55.
CPU w/GTIA $20. 10K ROM rev B $15. 16K Ram(no chips) $3. Cart PCB $1.
800 Main PCB $30.   400 Main PCB $20.   16K EPROM Cart PCB(no chips) $7.
800 Power PCB $5. w/cut 10 for $10. 400 Power PCB $4. w/cut 10 for $5.
GTIA, CPU 6502/6511, ANTIC, CTIA, PIA, POKEY, MPU 6507, RAM 6810 $5. ea
Atari 820 Printer mech., CPU, Xformer & Field Service Manual $40.
Atari Basic PCB w/manual $23. Atari Assembler PCB w/manual $23.
Atari Basic Manual $7.50 Atari Assembler Manual $7.50 Microsoft Manual $5.
Pilot Ref or Pilot Student Manuals $5.

*** NEW Atari 800 48K (w/choice of $100. Atari software) $295.****
********** NEW Printers/Interfaces/Modems ***************
Atari 850 Interface $210. Printer cable $35. Axiom Printer Int. $99.
ATR-8000 64K w/CPM $495.   16K $350. Bit 3 80 col. $275. w/32K $300.
MPP-1000C Modem $149. Atari 1035 Modem $139. Atari Keypad $99.
Atari Touch Tablet $75. Koala Touch Tablet $85. Chalkboard $85.
Axalon RAM 128K $299., 48K $95. & 32K $75.   Atari 16K $25.
64K 600XL mod $149. Omnimon Std. $99, w/8k $140, 8K chip $45.
Printers: Star 10X $299. Prowriter 8510A $399. Super 5 CP-80 $299.
OSS Action, MAC-65 cart, Basic XL, Atari Writer, Atari Logo $85.ea
Bit Convologic Byte Writer $189. Byte Reader $35. Examiner $89. WAM $50.
Synapse & Atari games 20% off, WICO Joystick $25. Trackball $35.

*** Terms & Conditions: Prices do not incude shipping or Calif sales tax &
are subject to change. All sales final. No returns or refunds. Store hours
Tuesday-Friday 10:AM to 7:PM, Saturday 10:AM to 5:PM. We will ship however,
we are not a mail order store & prefer walk in business. Shipping UPS COD
cash, cashiers check or pre-paid. MC & Visa in store only.

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SPECIAL DISCOUNT ORDER FORM

HAPPY COMPUTERS Inc.
P.O. Box 1268
Morgan Hill, CA 95037
(408) 779-3830, 9 to 5 pacific time

ORDERS AT THERE DISCOUNT PRICES ARE ACCEPTED ONLY WITH THIS ORDER FORM. THESE DISCOUNT
PRICES EXPIRE JUNE 31, 1984. THESE PRICES APPLY TO PREPAID ORDERS. DISCOUNT COD PRICES ARE
HIGHER, CALL AND PLEASE HAVE THE INFORMATION ON YOUR ADDRESS LABEL HANDY WHEN CALLING.
PERSONAL CHECKS REQUIRE 3 WEEKS TO CLEAR EXCEPT WHEN ONLY ORDERING SOFTWARE REVISION.

HAPPY 810 ENHANCEMENT PRICING INCLUDES ENHANCEMENT CIRCUIT BOARD, INSTALLATION
INSTRUCTIONS, HAPPY BACKUP, HAPPY COMPACTOR, SECTOR COPIER, WARP SPEED DOS, DIAGNOSTIC,
MULTI DRIVE, and COMPLETE INSTRUCTIONS. PRICES SHOWN FOR -H MODEL, ADD $10.00 FOR EACH -L.

QTY ordered now -H PRICE EACH WOW!
         1                    $179.95 . . . . _____
         2                    $169.95 . . . . _____
         3                    $159.95 . . . . _____
    5 or more $149.95 . . . . _____
             each -L model $10.00 . . . . _____

HAPPY 1050 ENHANCEMENT & ALL WARP SOFTWARE
PREPAID ADVANCE ORDERS $199.95 each . . . . _____

HAPPY CUSTOMIZER PROGRAM separately $39.95
ORDERED WITH ENHANCEMENT $24.95 . . . . _____

ANALOG UPGRADE FULLY TESTED separately $49.95
ORDERED WITH ENHANCEMENT $44.95 . . . . _____

WARP SPEED SOFTWARE rev 5.2 complete $15.00 . . . _____
WARP SPEED SOFTWARE rev 5.2 update $7.50 . . . . . . _____
check if order entitles you to free rev 5.2 software (   )

CA residents 6.5% tax, foreign orders add $10   _____

ORDER TOTAL (send USA dollars payable in USA)   _____

     check X here if info on address label is correct (   )
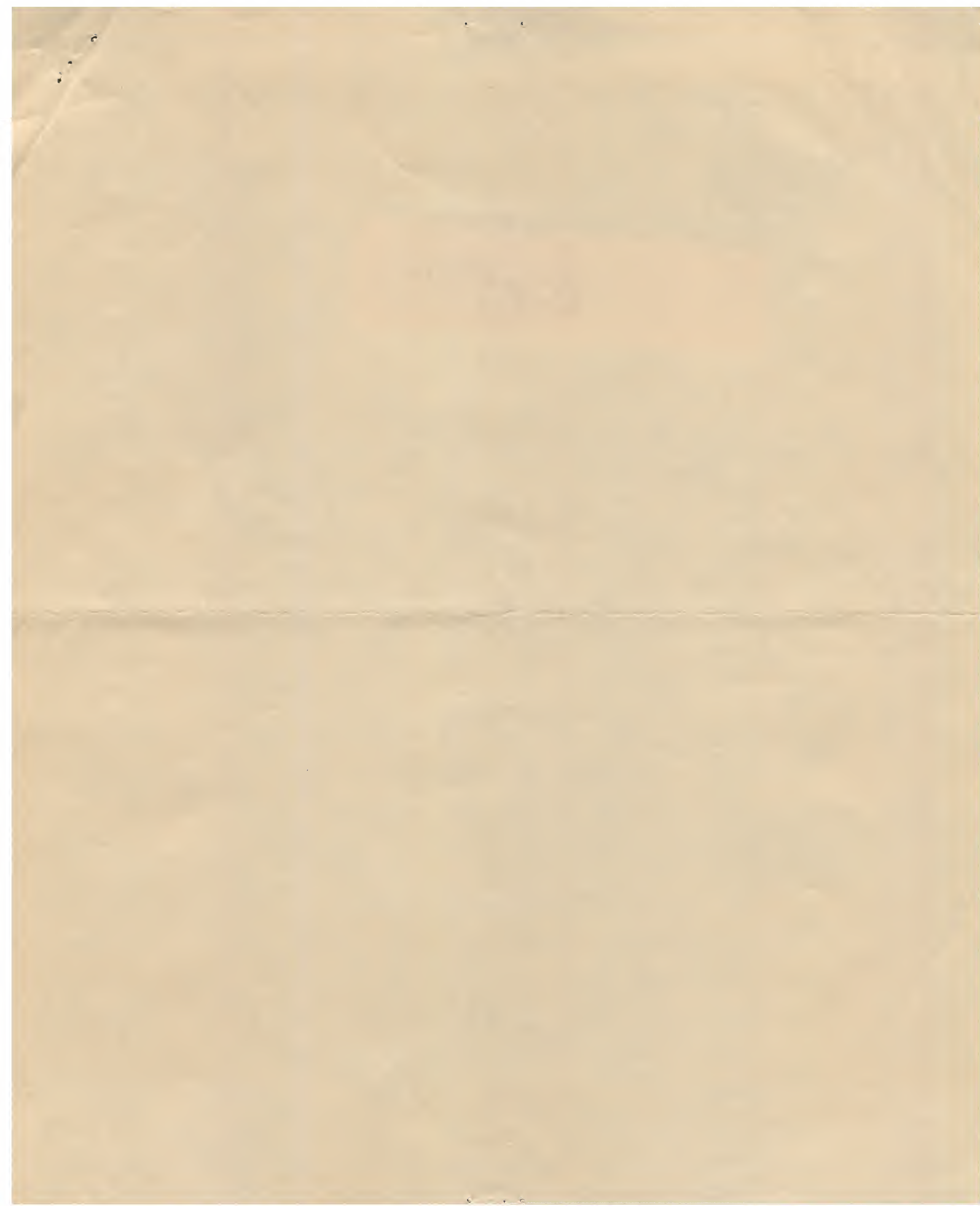   otherwise enter correct ship to info below, please print

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To:

HAPPY COMPUTERS Inc.
P.O. Box 1268   (408) 779-3830
Morgan Hill, CA 95037

HAPPY COMPUTERS

IMPORTANT NEWS

ANALOG UPGRADE

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SPECIAL DISCOUNT PRICES

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